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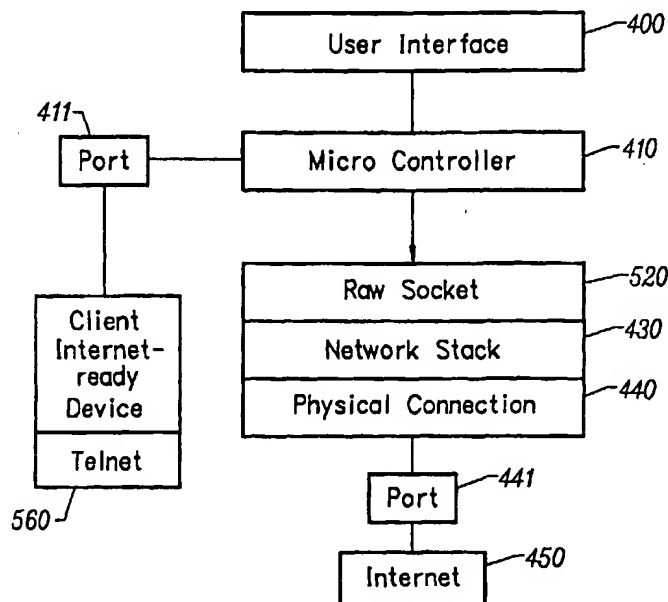
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[Continued on next page]

(54) Title: INTERNET JACK



(57) Abstract: The claimed invention herein provides a simple, economical, and safe way to connect a new class of Internet-ready devices and appliances to the Internet without the use of a personal computer (PC). The claimed invention herein provides an Internet dial-tone, so to speak, to applications ranging from toys and entertainment consoles to electronic books and health equipment just as a traditional telephone jack provides a plain old telephone system (POTS) dial-tone for phones, modems, and fax machines. The invention herein features a modem, network stack, and application protocols alleviating the need for sophisticated logic within attached devices. With one-touch, appliances can quickly and easily connect to the Internet.

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04L12/28 H04L29/06 H04M11/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04M H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	WO 99 65219 A (IREADY CORP) 16 December 1999 (1999-12-16) the whole document	1,2,4-9, 12,19, 20,24, 26-28, 30-35, 38,45, 46,50, 52-55
X	WO 99 39488 A (BRITISH TELECOMM ;FLYNN JASON STUART (GB)) 5 August 1999 (1999-08-05) page 1, line 10 -page 9, line 21 page 10, line 21 -page 15, line 30 abstract; figures 3-5,8 -/--	1,2,6-9, 27,28, 32-35

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
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- "P" document published prior to the international filing date but later than the priority date claimed

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"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PORTABLE COMPUTER AND COMMUNICATIONS ASSOCIATION - MODEM STANDARDS COMMITTEE: "The IP Modem Interface Standard" 6 March 1998 (1998-03-06) , IP MODEM INTERFACE STANDARD DRAFT,XX,XX, PAGE(S) 1-26 XP002120914	1,2,4-9, 12,19, 20,24, 26-28, 30-35, 38,45, 46,50, 52-55
A	the whole document	3,10,29, 36
A	--- MARGOLIN B: "SMARTER STUFF" June 1997 (1997-06) , BYTE,US,MCGRW-HILL INC. ST PETERBOROUGH, VOL. 22, NR. 6, PAGE(S) 85,87,89,91-92 XP000691560 ISSN: 0360-5280 the whole document -----	1-9

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 00/22476

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-10 12 19 20 24 26-36 38 45 46 50 52-55

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

1. Claims: 1-10 12 19 20 24 26-36 38 45 46 50 52-55

An internet jack for connecting an internet device to internet

2. Claim : 11 37

Ethernet hub

3. Claims: 13-17 39-43

Authentication of users

4. Claim : 18 44

Initiating passing information between device and internet

5. Claims: 21-23 47-49

Micro controller

6. Claim : 25 51

Baud rate detection